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1. Interfaces

1.1. Constituent

Properties

PrimaryLanguage	The language that the Constituent primarily uses
GovernmentIDNumber	Identification number issued by the Constituent's government.
ConstituentType	abstract, Read-Only Type of Constituent: Individual, ExternalOrganization, InternalOrganization
IsContact	Read-Only Returns whether or not this Constituent is a Contact.
Parent	Read-Only Returns the parent that is associated to this Constituent.
DisplayName	abstract, Read-Only Returns the name used for display purposes for this Constituent.

Compositions

Addresses	Collection of ConstituentAddress child entities.
ElectronicCommunication	Collection of ElectronicCommunication child entities.
PhoneNumbers	Collection of PhoneNumber child entities.
Contacts	Collection of Contact child entities.

Methods

Copy(ConstituentType constituentType) : Constituent	Copies all of the common properties of the current Constituent to a new Constituent of the given type.
MergeAttributes(Constituent sourceConstituent)	Merges 'this' with the given constituent. Can only be called if merging from the constituent-level and not from the ConstituentRoleEntity-level.
MergeSave (Constituent sourceConstituent)	Saves the newly merged constituent and attempts to delete the source constituent.

1.2. ConstituentRetrieve

Public Properties

CollectionOptions	Gets and sets the collection options for use with Microsoft.BusinessFramework.Entity.EntityVirtualCollection.FindAllWithBlock methods such as Microsoft.BusinessFramework.Entity.EntityVirtualCollection.CollectionOptions.
CreateOptions	Gets and sets the options used in creating a virtual collection.
DataLocationPolicy	Gets and sets the default entity persistence options for the data location policy. Used to override the default location policy for the current entity type.
FilterOptions	Gets and sets the filter options used to append criteria to all retrieves.
FindOptions	Gets and sets the options used for finding an entity.
SecurityOptions	Gets and sets the security options for a virtual collection.
TransactionOptions	Gets and sets the transaction options for virtual collection.
ParentKey	Gets and sets the parent key of the current virtual collection.
EntityClassName	Gets the full name of the entity.
EntityType	Gets the type of the entity using the EntityClassName property and assuming the entity and factory are in the same assembly.

Public Constructors

ctor()	Default constructor. Initializes a new instance of the ConstituentRetrieve class with the default parent key.
ctor(IKey parentKey)	Initializes a new instance of the ConstituentRetrieve class with the specified parent key.

Public Methods

Find(EntityCriteria crit) : Constituent	Returns a Constituent for the given EntityCriteria
Find(WhereExpression where) : Constituent	Returns a Constituent for the given WhereExpression
FindAll () : ArrayList	Returns an ArrayList of all Constituents
FindAll (WhereExpression where, OrderByList orderByList) : ArrayList	Returns an ArrayList of all Constituents of the given WhereExpression and OrderByList.
FindAll (OrderByList orderByList) : ArrayList	Returns an ArrayList of all Constituents of the given OrderByList.
FindAll (WhereExpression where) : ArrayList	Returns an ArrayList of all Constituents of the given WhereExpression.
FindAll (CollectionCriteria criteria) : ArrayList	Returns an ArrayList of all Constituents of the given CollectionCriteria.
FindAll (ConstituentType conType) : ArrayList	Returns an ArrayList of all Constituents of the given ConstituentType.
FindAll (ConstituentOrganizationType orgType, string businessName) : ArrayList	Returns an ArrayList of all Organizations of the given OrganizationType and business name.
FindAll (string firstName, string lastName) : ArrayList	Returns an ArrayList of all Individuals of the given first and last name.
FindAll (ConstituentType conType, CollectionCriteria criteria) : ArrayList	Returns an ArrayList of all Constituents of the given ConstituentType matching the given CollectionCriteria.
FindAllByEmail(string email) : ArrayList	Returns an ArrayList of all Constituents whose ElectronicCommunication Email type value matches the given email.
FindAllByEmail (string email, ConstituentType conType) : ArrayList	Returns an ArrayList of all Constituents of the given ConstituentType whose ElectronicCommunication Email type value matches the given email.
FindByID(Guid id) : Constituent	Returns a Constituent for the given id
FindAllWithBlock() : ArrayList	Returns a BlockReader that can be used to block read over a set of all entities known to this virtual collection.
FindAllWithBlock(CollectionCriteria criteria) : ArrayList	Returns a BlockReader that can be used to block read entities meeting the CollectionCriteria
FindAllWithBlock(WhereExpression whereExpression) : ArrayList	Returns a BlockReader that can be used to block read over every entity that is associated with the given

	WhereExpression.
FindAllWithBlock(WhereExpression whereExpression, OrderByList orderByList) : ArrayList	Returns a BlockReader that is able to block read over all of the entities associated with the given WhereExpression, sorted in the order requested by OrderByList.
FindAllWithBlock(OrderByList orderByList) : ArrayList	Returns a BlockReader that can be used to block read over all of the entities known to this virtual collection sorted in the order requested by OrderByList

1.3. Organization

Properties

BusinessName	Name of the organization.
LegalName	Legal name of the organization
Description	Description of the organization
DisplayName	Overridden. Returns the name used for display purposes for this Organization which is the BusinessName.
StandardIndustrialClassification	Used as a classification of organizations by the U.S. government (http://www.sec.gov/info/edgar/siccodes.htm).

Public Methods

ToString	Returns a string that represents the Organization which is the DisplayName property.
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1.4. ExternalOrganization

Properties

ConstituentType	Overridden. See Constituent.ConstituentType. Return ConstituentType.ExternalOrganization
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Public Methods

Validate	Overridden. Provides validation for: BusinessName, LegalName
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1.5. InternalOrganization

Properties

ConstituentType	Overridden. Read-Only See Constituent.ConstituentType. Return ConstituentType.InternalOrganization
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Public Methods

Validate	Overridden. Provides validation for: BusinessName, LegalName
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1.6. Individual

Public Properties

ConstituentType	Overridden. See Constituent.ConstituentType. Return ConstituentType.Individual
FirstName	Gets or sets the first name of the individual.
MiddleName	Gets or sets the middle name of the individual.
LastName	Gets or sets the last name of the individual.
Suffix	Gets or sets the suffix of the individual.
PreferredName	Gets or sets the preferred name of the individual.
CourtesyTitle	Gets or sets the courtesy title of the individual.
FullName	Read-Only Returns a formatted name based on the individual's first, middle

	and last name.
FullNameFormat	A format string used to display the FullName property. Used as the default for display this Individual's FullName.
FileAs	List value representing which way the user wants to file or display this name. See FileNameAs enumeration.
FileAsValue	User entered value to represent how they want to file or display this name. Only set if FileAs = FileNameAs.UserDefined, otherwise empty.
Gender	Male, Female, or Unknown
IsContact (Derived)	Read-Only True if this individual is a contact of another constituent. False if this individual is the parent constituent.
DisplayName	Overridden. Read-Only Returns the FullName

Public Methods

GetFullName (string first, string middle, string last)	Gets the full name of the Individual
GetFullNameSqlExpression(MethodBase method, PropertySqlClause clause)	Used by EntityPersistence when using the FullName property in any SQL expression created using that property.
Validate	Overridden. Provides validation for: FileAs
ToString(string format, FullNameFormat formatProvider)	Returns a string that represents the Individual (ie. FullName), in the format provided.

1.7. FullNameFormat

Public Methods

Format(string, object, IFormatProvider)	Converts the name fields of the Individual to a FullName using the specified format.
GetFormat(Type formatType) : object	Returns the current instance which is the format to use.

1.8. ConstituentAddress

Public Instance Properties

IsPrimary	True if designated as the constituent's primary address
PrimaryLanguage	The primary language used at this Constituent's address.

Public Compositions

ElectronicCommunication	Collection of ElectronicCommunication child entities.
PhoneNumbers	Collection of PhoneNumber child entities.

Public Methods

Initialize	Sets the ID property. Default the PreferredLanguage
FindAllContacts	Finds a list of all Contacts that are associated to this address.
CopyFrom	Copies the fields from the given address to the current address object.

1.9. ConstituentAddressVirtualCollection

Public Methods

FindPrimary() : ConstituentAddress	Finds the primary ConstituentAddress for the Constituent set in the VirtualCollection.
Exists (Constituent.Key constituentKey, ConstituentAddress address) : bool	Determines if the given ConstituentAddress exists for the given parent.

1.10. ConstituentAddressEntityCollection

Public Properties

this [index : int] : ConstituentAddress	Returns the ConstituentAddress for the given index.
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Public Methods

FindPrimary() : ConstituentAddress	Returns the ConstituentAddress that is designated as primary for the current Constituent.
Create() : ConstituentAddress	Creates and adds a new ConstituentAddress to the collection.
Create(Type type, EntityKey entityKey) : ConstituentAddress	Creates and adds a new entity of the given type to the collection for the given EntityKey.
Create(EntityKey entityKey) : ConstituentAddress	Creates and adds a new ConstituentAddress to the collection for the given EntityKey.
Create(Type type) : ConstituentAddress	Creates and adds a new entity of the given type to the collection.

1.11. Communication

Public Instance Properties

UserDefinedType	Virtual Defines a communication type that is not currently defined in the system.
IsPrimary	True if designated as the constituent's primary communication entity.

1.12. CommunicationVirtualCollection

Public Methods

FindPrimary() : Communication	Finds the primary Communication for the Constituent set in the VirtualCollection.
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1.13. PhoneNumber

Public Instance Properties

PhoneType	Phone number types (shown in PhoneType enumeration).
LocalNumber	The local number part of the phone number
Extension	The phone number extension
CityAreaCode	The area code of the phone number
UserDefinedType	Overridden. PhoneType entered by user that is not in the list.
CountryID	Country that the phone number is in. Will come from a list of country codes provided in the system.
TAPICodeNumber	Also known as Country Code. Number used as a prefix when dialing out of your current country location.

Public Methods

CopyFrom (PhoneNumber phone)	Copies the fields from the given phone number to the current phone number object
ToString	Formats the phone number to a displayable value
GetTypeDisplayNames	Returns a list of displayable PhoneType values.
SetPrimary(bool)	Not for public use.

Public Associations

Country	Association to the Country that corresponds to the CountryID property.
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1.14. PhoneNumberVirtualCollection

Public Methods

FindAllByType(PhoneType phoneType) : ArrayList	Returns a list of PhoneNumbers for the given phone type.
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FindAllByType(PhoneType[] phoneTypes) : ArrayList	Returns a list of PhoneNumbers for the given phone types.
FindAll(string areaCode, string localNumber) : ArrayList	Returns a list of PhoneNumbers matching the given area code and local number.
Exists(Constituent.Key constituentKey, PhoneNumber phone) : bool	Determine if the given PhoneNumber exists for the given parent.

1.15. PhoneNumberEntityCollection

Public Properties

this [index : int] : PhoneNumber	Returns the PhoneNumber for the given index.
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Public Methods

FindPrimary() : PhoneNumber	Returns the PhoneNumber that is designated as primary for the current Constituent.
Create() : PhoneNumber	Creates and adds a new PhoneNumber to the collection.
Create(Type type, EntityKey entityKey) : PhoneNumber	Creates and adds a new entity of the given type to the collection for the given EntityKey.
Create(EntityKey entityKey) : PhoneNumber	Creates and adds a new PhoneNumber to the collection for the given EntityKey.
Create(Type type) : PhoneNumber	Creates and adds a new entity of the given type to the collection.

1.16. ElectronicCommunication

Public Instance Properties

UserDefinedType	Overridden. ElectronicCommunicationType entered by user
ElectronicCommunicationType	Electronic communication types (shown in ElectronicCommunicationType enumeration).
Protocol	The protocol for the specific elec. comm type. For example, "http"
CommunicationValue	The value that corresponds to the communication type

Public Methods

CopyFrom (ElectronicCommunication ec)	Copies the fields from the given electronic communication to the current electronic communication object
ToString	Formats the electronic communication to a displayable value. Returns the CommunicationValue.
GetTypeDisplayNames	Returns a list of displayable ElectronicCommunicationType values.

1.17. ElectronicCommunicationVirtualCollection

Public Methods

FindAllByType(ElectronicCommunicationType ecType) : ArrayList	Returns a list of ElectronicCommunication for the given electronic communication type.
FindAllByType(ElectronicCommunicationType[] ecTypes) : ArrayList	Returns a list of ElectronicCommunication for the given electronic communication types.
FindAll(string communicationValue) : ArrayList	Returns a list of ElectronicCommunication matching the given communication value.
Exists(EntityKey parentKey, ElectronicCommunication ec) : bool	Determine if the given ElectronicCommunication exists for the given parent.

1.18. ElectronicCommunicationEntityCollection

Public Properties

this [index : int] : ElectronicCommunication	Returns the ElectronicCommunication for the given index.
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Public Methods

FindPrimary() : ElectronicCommuncation	Returns the ElectronicCommuncation that is designated as primary for the current Constituent.
Create() : ElectronicCommuncation	Creates and adds a new ElectronicCommuncation to the collection.
Create(Type type, EntityKey entityKey) : ElectronicCommuncation	Creates and adds a new entity of the given type to the collection for the given EntityKey.
Create(EntityKey entityKey) : ElectronicCommuncation	Creates and adds a new ElectronicCommuncation to the collection for the given EntityKey.
Create(Type type) : ElectronicCommuncation	Creates and adds a new entity of the given type to the collection.

1.19. Contact

Public Properties

JobTitle	The Contacts' job title
Parent	Derived. The Contact's parent entity
IsPrimary	True if designated as the constituent's primary contact.
HasChanged	True if the Contact or the Contact's Constituent has changed.
FullName	Derived. Returns the Contact's Constituent's FullName
ConstituentType	Overridden. See Constituent.ConstituentType. Return ConstituentType.Individual

Public Associations

AddressAssociations	Association collection to it parent's addresses. Used so that if a Contact's address is the same as the Constituent it is tied to, the address doesn't have to be duplicated.
ExcludedConstituentRoleAssociations	Association collection to it constituent role the contact should NOT be associated to. By default, they are associated to all roles.
Constituent	A "strong" association to a Constituent which actually represents the Contact. However, due to a bug that doesn't allow children to be Root entities, this implementation is used.
ConstituentRole	Derived. Not mapped Returns the Contact's ConstituentRole.

Public Methods

CopyFrom (Contact contact)	Copies the fields from the given contact to the current contact object
IsAssociatedToConstituentRole(Type type) : bool	Return true if the Contact is associated to the given Constituent role type.
MergeConstituentAttributes(Constituent sourceConstituent)	Merges the given sourceConstituent's attributes into the Contact's Constituent attributes.
Initialize()	Override Sets the Contact's ID. Sets the Constituent association to a new Individual. Associate the Contact to all ConstituentRoles. Flag the Constituent as a Contact.
ToString() : string	Returns Contact.Constituent.ToString()

1.20. ContactVirtualCollection

Public Methods

FindAllByEmail(string email)	Returns a list of Contacts for the given email address.
FindAll(string firstName, string lastName) : ArrayList	Returns a list of Contacts for the given name
FindPrimary() : Contact	Returns the Contact that is designated as primary for the current Constituent.
Exists(EntityKey parentKey, Contact contact) : bool	Determine if the given Contact exists for the given parent.

1.21. ContactEntityCollection

Public Properties

this [index : int] : Contact	Returns the Contact for the given index.
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Public Methods

FindPrimary() : Contact	Returns the Contact that is designated as primary for the current Constituent.
Create() : Contact	Creates and adds a new Contact to the collection.
Create(Type type, EntityKey entityKey) : Contact	Creates and adds a new entity of the given type to the collection for the given EntityKey.
Create(EntityKey entityKey) : Contact	Creates and adds a new Contact to the collection for the given EntityKey.
Create(Type type) : Contact	Creates and adds a new entity of the given type to the collection.

1.22. ConstituentAddresses

Public Properties

ID	Uniquely identifies ConstituentAddresses in the data store.
AddressID	The ID of the ConstituentAddress association.
IsPrimary	Returns true if this entity is designated as the primary address for the given address type.

Protected Properties

Type	Generic address type. Contained on this abstract class to handle functionality that is generic to any address type. The concrete class will identify the specific enumeration to represent its address types. The ConstituentAddressTypeAttribute is used to signify this field on the concrete class.
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Public Associations

Address	This is the keyed association to the ConstituentAddress entity
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1.23. IAddressTypes

Public Properties

Address	A collection of ConstituentAddresses using the AddressCollection.
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1.24. AddressCollection

Public Properties

this[addrType: Enum] : ConstituentAddress.Key	Gets and sets the primary ConstituentAddress for the given address type
this[index: int] : ConstituentAddresses	Gets the ConstituentAddress for the given index.
AddressType	Returns the System.Type of the Enum representing the address type.
Count	Gets the number of elements contained in the entity collection.
ContainedEntityType	Gets the type of the entities contained in the collection as defined by the map.
IsSynchronized	Gets the flag indicating whether access to the entity collection is synchronized (thread-safe).
SyncRoot	Gets an object that can be used to synchronize access to the entity collection.
VirtualCollection	Gets the virtual collection associated with the base entity type that can be held by the current concrete collection.

Public Methods

ctor(EntityCollection)	Creates a new AddressCollection using the given EntityCollection for the underlying collection
Create(Enum addressType, ConstituentAddress address) : ConstituentAddresses	Creates and adds a new ConstituentAddresses entity to the collection. The address type and address properties are set.
Create(Enum addressType, ConstituentAddress.Key	Creates and adds a new ConstituentAddresses entity to the

addressKey) : ConstituentAddresses	collection. The address type and address properties are set.
Delete(ConstituentAddresses address)	Removes the given address from the collection.
FindPrimary(Enum addressType) : ConstituentAddresses.Key	Finds the primary ConstituentAddresses for the given address type.
CopyTo(Array array, int arrayIndex)	Copies the entire entity collection to a compatible one-dimensional array starting at the specified index, which should be based at zero.
GetBidirectionalEnumerator() : IBidirectionalEnumerator	Returns a bidirectional enumerator that can iterate through the entire entity collection.
GetEnumerator() : IEnumerator	Returns a forward moving enumerator that can iterate through the entire entity collection.

1.25. ConstituentRoleEntity

Public Properties

ConstituentType	Derived. Read-only (must call ChangeConstituentType to change) The type of Constituent this entity is associated to.
HasChanged	Returns true if the entity or its Constituent association has changed.

Public Associations

Constituent	A "strong" association to a Constituent which actually represents the Contact. However, due to a bug that doesn't allow children to be Root entities, this implementation is used.
ConstituentRole	The ConstituentRole that this entity represents

Protected Methods

MergeConstituentAttributes (Constituent sourceConstituent)	Merges the given sourceConstituent's attributes into the ConstituentRoleEntity's Constituent attributes.
SetConstituent	Set the Constituent "strong" association. Changes the association to writeable
ChangeConstituentType(ConstituentType newType)	Changes the type of Constituent this instance is associated to. Other roles that are associated to the current Constituent will NOT change their association
ChangeConstituentType(ConstituentType newType, bool changeAllRoles)	Changes the type of Constituent this instance is associated to. Other roles that are associated to the current Constituent will change their associations based on the changeAllRoles parameter. Exception: If changeAllRoles is true and at least one other role can't change their association.

1.26. ConstituentRoleEntityVirtualCollection

Public Methods

CreateByConstituent(Constituent)	Creates a new ConstituentRoleEntity and sets its Constituent association to the given parameter.
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1.27. ConstituentRoleAssociation

Public Properties

StartDate	The starting date/time that the respective Constituent and ConstituentRole were associated.
EndDate	The end date/time that the respective Constituent and ConstituentRole were associated.
IsCurrent	Derived. Returns true if the association represents the current one (ie. EndDate = Max Date). This association also can represent an old association for historical purposes.
ConstituentRoleType	Derived. System.Type of the ConstituentRole end.
ConstituentRoleEntityID	ID of the ConstituentRoleEntity for the given ConstituentRole – Constituent

	combination.
ConstituentRoleTypeString	Derived. The ConstituentRole Type converted to a string. The string is exposed to be used for querying purposes.

Public Associations

Role	The ConstituentRole end of the association
Constituent	The Constituent end of the association.

1.28. ConstituentRoleAssociationVirtualCollection

Public Methods

FindAll(Constituent.Key constituentKey) : ArrayList	Returns a list of associations for the given Constituent.
FindAll(Type conRoleType) : ArrayList	Returns a list of associations for the given ConstituentRole type.
FindAll(ConstituentRole.Key roleKey) : ArrayList	Returns a list of associations for the given ConstituentRole.
Find(ConstituentRoleEntity.Key entityKey) : ConstituentRoleAssociation	Returns an association for the given ConstituentRoleEntity, if one exists.
FindAllRoles(Constituent.Key constituentKey) : ArrayList	Returns a list of ConstituentRoles that the given Constituent is associated to.
Create(Constituent constituent, ConstituentRole constituentRole, IConstituentRoleMember constituentRoleMember) : ConstituentRoleAssociation	Creates a new ConstituentRoleAssociation, setting the key fields, ConstituentRole and Constituent, and also setting the IConstituentRoleMember it is associated to.

Public Static Methods

AreAnyRolesIn(Constituent constituent1, Constituent constituent2) : bool	Determines if either of the Constituents have any ConstituentRoles in common.
IsInAnyOtherRole(Constituent.Key constituentKey, ConstituentRole.Key roleKey) : bool	Is the given Constituent in any ConstituentRole except the given role.
IsInRole(Constituent.Key constituentKey, Type conRoleType) : bool	Is the given Constituent in the given ConstituentRole.
IsInRole(Guid constituentRoleEntityID, Type conRoleType) : bool	Is the given ConstituentRoleEntity in the given ConstituentRole.
IsInRole(Constituent.Key constituentKey, ConstituentRole.Key constituentRoleKey) : bool	Is the given Constituent in the given ConstituentRole.
IsInAnyRole(Constituent.Key constituentKey) : bool	Is the given Constituent in any ConstituentRole.

1.29. ConstituentRole

Public Properties

ConstituentRoleType	The System.Type of the entity represented by the role.
ConstituentRoleTypeString	The ConstituentRoleType converted to a string. The string is exposed to be used for querying purposes.
Name	The name of the role.
Options	The options defined by the role. Shown by ConstituentRoleOptions
Description	The role's description
DefaultRole	If a connection to MBF's security is needed for this role (ie. the Constituent is a User), this flag determines whether an association between the Constituent and the associated GenericRole should be created.
DefaultConstituentType	When a ConstituentRoleEntity is created corresponding to the current role, a new Constituent is created and associated to it. This property returns what type of Constituent that should be.

Public Association

GenericRole	If needed, this association is the link to MBF role security. It is used as a default security role if the Constituent is also a User.
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Public Methods

IsValidConstituentType(ConstituentType conType) : bool	Is the given ConstituentType allowed for the current ConstituentRole. Verifies against the role's Options property
ToString() : string	Returns the fully qualified class name.

1.30. ConstituentRoleOptions

Public Properties

CanBeUpdatedByOtherConstituentRole	True – allows the update of the current role's Constituent by another role. For example, if Constituent is extended by an Employee and this option is false for the Employee, then if the Constituent is extended by another role, that role could not update the Constituent.
CanExtendAsOtherConstituentRole	True – allows another role to extend this role's Constituent. For example, if the property is true for a Customer, then another role can extend a Customer's Constituent (if this property is true for that role also.)
CanExtendAsUser	True – allows the User role to extend this role's Constituent. Set to false to not allow the role to be extended as a User.
CanBeIndividual	True – allows the role's Constituent to be of type Individual.
CanBeExternalOrganization	True – allows the role's Constituent to be of type ExternalOrganization.
CanBeInternalOrganization	True – allows the role's Constituent to be of type InternalOrganization.
AllowsPaymentCard	True – allows the role to be associated to payment cards in the system.

Public Static Methods

ToOptions(int) : ConstituentRoleOptions	Used by EP as a read DataMove to convert the database value to a ConstituentRoleOptions object.
FromOptions(ConstituentRoleOptions) : int	Used by EP as a write DataMove to convert a ConstituentRoleOptions object to a database value.

1.31. ConstituentRoleVirtualCollection

Public Methods

Create() : ConstituentRole	Creates a new ConstituentRole while setting the ID field.
FindByName(string name) : ConstituentRole	Find a ConstituentRole for the given name.
FindByType(Type constituentRoleType) : ConstituentRole	Find a ConstituentRole for the given Type.